

510(K) SUMMARY

Pursuant to 510(i) of the Federal Food, Drug, and Cosmetic Act, as amended, and in accordance with 21 CFR § 807.92.

Submitter Information:

SeaSpine, Inc.

Contact: Diana Smith 2302 La Mirada Drive Vista, CA 92081-7862

Phone: 760-727-8399 Fax: 760-727-8809

Company Registration Number:

2032593

Submission Correspondent:

SeaSpine, Inc.

Contact: Diana Smith, Manager of

Regulatory Affairs and Quality Assurance

2302 La Mirada Drive Vista, CA 92081-7862

Phone: 760-727-8399 Fax: 760-727-8809

Date Summary Prepared:

April 4, 2006

Classification Name:

Pedicle Screw Spinal System

MNH (Class II) - 888.3070(b)(1) MNI (Class II) - 888.3070(b)(1) NKB (Class III) - 888.3070(b)(2)

Spinal Interlaminal Fixation Orthosis KWP (Class II) – 888.3050

Common/Usual Name:

Cannulated polyaxial screws, closed lateral connectors, rod connectors, precontoured rods, contoured crossbars, components, and

instruments

Device Trade Name:

MalibuTM

The devices used for comparison in this summary are Synthes Spine Company's Synthes Click'X Monoaxial Screw System (K031175), DePuy Acromed's Moss Miami Spinal System (K002607 and K992168), and SeaSpine Inc.'s UCR Spinal System (K993503, K021623, K031381, K032739/S1 and K043232) and Malibu Spinal System (K051663 and K051942).

1. <u>Intended Use:</u> (The statements of intended use are identical.)

The intended use of the Malibu system is as a temporary or permanent posterior, non-cervical implant to correct spinal disorders and provide stabilization of the spine to permit the biological process of spinal fusions to occur.

The intended use of the Malibu spinal system, when used as a Pedicle Screw Spinal System or Spondylolisthesis Spinal Fixation Device System, is to provide immobilization and stabilization of spinal segments in skeletally mature patients as an adjunct to fusion in the treatment of the following acute and chronic instabilities or deformities of the thoracic, lumbar, and sacral spine. The indications for use are as follows:

- degenerative disc disease (DDD) as defined by back pain of discogenic origin with degeneration of the disc confirmed by patient history and radiographic studies,
- severe spondylolisthesis (Grades 3 and 4) of the L5-S1 vertebra in skeletally mature patients receiving fusions by autogenous bone graft having implants attached to the lumbar and sacral spine (L3 to sacrum) with removal of the implants after the attainment of a solid fusion (indication for use only when used as a Spondylolisthesis Spinal Fixation Device System),
- spondylolisthesis,
- trauma (i.e., fracture or dislocation),
- spinal stenosis,
- deformities or curvatures (i.e., scoliosis, kyphosis, and/or lordosis)
- spinal tumor.
- pseudoarthrosis, and/or
- failed previous fusion.

The intended use and indications of the Malibu spinal system, when used as a Spinal Interlaminal Fixation Orthosis or Hook Spinal System, are limited to T1-L5 and are as follows:

- degenerative disc disease (DDD) as defined by back pain of discogenic origin with degeneration of the disc confirmed by patient history and radiographic studies.
- spondylolisthesis
- trauma (i.e., fracture or dislocation),
- spinal stenosis,
- deformities or curvatures (i.e., scoliosis, kyphosis, and/or lordosis).
- tumor.
- pseudarthosis, and/or
- failed previous fusion.

2. Description:

The Malibu system will include cannulated polyaxial screws, closed lateral connectors, rod connectors, precontoured rods, and countoured crossbars. All products are fabricated from titanium alloy, with the exception of the screws which have a cobalt alloy component. All products are being offered in a wide variety of different sizes. The Malibu parts in this submission are being added to the current Malibu product line, but these items are also compatible with and work in conjunction

with components in the UCR system. All product is supplied "NON-STERILE" and must be sterilized prior to use.

The Malibu Spinal System will also offer a wide variety of instruments that range from polyaxial screw drivers to bone probes. These instruments will be made from various grades of stainless steel with a few handles made from Radel and silicone. These items are supplied "NON-STERILE" and must be sterilized prior to use.

3. <u>Technological Characteristics:</u>

The cannulated polyaxial screws, closed lateral connectors, rod connectors, precontoured rods, contoured crossbars, components, and instruments in this notification are components being added to the previously cleared Malibu system, but are designed to be compatible with and work in conjunction with the components in the current SeaSpine UCR system. The devices in this submission have substantially equivalent technological characteristics to the predicate devices. Refer to **Table 1** in the following section, entitled *Comparison Analysis*, for a summation of technological characteristics such as design, dimensional specifications, and material.

4. Comparison Analysis:

The overall designs of the cannulated polyaxial screws, closed lateral connectors, rod connectors, precontoured rods, contoured crossbars, and components are substantially equivalent to the predicate devices. See **Table 1** on the following page for a comparison of the cannulated polyaxial screws, closed lateral connectors, rod connectors, precontoured rods, contoured crossbars, and components to the predicate devices.

Feature	Malibu Spinal System	Synthes Click'X Monoaxial System	Moss Miami Spinal System	SeaSpine UCR and Malibu Spinal Systems	Substantially Equivalent
Intended Use	The intended use of the Malibu system is as a temporary or permanent posterior, non-cervical implant to correct spinal disorders and provide stabilization of the spine to permit the biological process of spinal fusions to occur.	Similar	Similar	Similar	Yes
Indications for Use	Degenerative disc disease (DDD) as defined by back pain of discogenic origin with degeneration of the disc confirmed by patient history and radiographic studies, spondylolisthesis, trauma (i.e., fracture or dislocation), spinal stenosis, deformities or curvatures (i.e., scoliosis, kyphosis, and/or lordosis), tumor, pseudarthosis, and/or efailed previous fusion.	Similar	Similar	Similar	Yes
Design	Cannulated polyaxial screws, closed lateral connectors, rod connectors, precontoured rods, contoured crossbars, and components.	Similar	Similar	Similar	Yes
Cannulated Polyaxial Screws	Various sizes	Similar	Similar	Similar	Yes
Closed Lateral Connectors	Various sizes	Similar	Similar	NĄ	Yes
Precontoured	Various sizes	Similar	Similar	NA	Yes
Rods Contoured Crossbars	Various sizes Various sizes	Similar Similar	Similar Similar	Similar Similar	Yes Yes
Material	Titanium alloy, cobalt alloy	Similar	Similar	Similar	Yes
Sterile	Non-sterile	Similar	Similar	Similar	Yes
Method of Sterilization	High-temperature steam	Similar	Similar	Similar	Yes
Mechanical Strength	All products passed testing per applicable standards.	Similar	Similar Design Compar	Similar	Yes

 Table 1: Summary of Design Comparison





Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

SeaSpine, Inc. % Ms. Ethel Bernal Document Control Specialist 2302 La Miranda Drive Vista, California 92081

OCT 2 5 2006

Re: K061342

Trade/Device Name: Malibu

Regulation Number: 21 CFR 888.3070

Regulation Name: Pedicle Screw Fixation System

Regulatory Class: III

Product Code: NKB, MNH, MNI, KWP

Dated: September 5, 2006 Received: October 10, 2006

Dear Ms. Bernal:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Page 2 – Ms. Ethel Bernal

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0120. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (240) 276-3150 or at its Internet address http://www.fda.gov/cdrh/industry/support/index.html.

Sincerely yours,

Mark N. Melkerson

Director

Division of General, Restorative and Neurological Devices Office of Device Evaluation Center for Devices and

Radiological Health

Enclosure

Malibu
Indications for Use Statement
510(k) Number (if known):
Device Name: Malibu
Indications for Use:
The intended use of the Malibu spinal system is as a temporary or permanent posterior, non-cervical implant to correct spinal disorders and provide stabilization of the spine to permit the biological process of spinal fusions to occur.
The intended use of the Malibu spinal system, when used as a Pedicle Screw Spinal System or Spondylolisthesis Spinal Fixation Device System, is to provide immobilization and stabilization of spinal segments in skeletally mature patients as an adjunct to fusion in the treatment of the following acute and chronic instabilities or deformities of the thoracic, lumbar, and sacral spine. The indications for use are as follows:
 degenerative disc disease (DDD) as defined by back pain of discogenic origin with degeneration of the disc confirmed by patient history and radiographic
 studies, severe spondylolisthesis (Grades 3 and 4) of the L5-S1 vertebra in skeletally mature patients receiving fusions by autogenous bone graft having implants attached to the lumbar and sacral spine (L3 to sacrum) with removal of the implants after the attainment of a solid fusion (indication for use only when used as a Spondylolisthesis Spinal Fixation Device System), spondylolisthesis,
• trauma (i.e., fracture or dislocation),
 spinal stenosis, deformities or curvatures (i.e., scoliosis, kyphosis, and/or lordosis) spinal tumor, pseudoarthrosis, and/or failed previous fusion.
Prescription Use X AND/OR Over-The-Counter-Use (Part 21 CFR 801 Subpart D) (21 CFR 807 Subpart C)
(PLEASE DO NOT WRITE BELOW THIS LINE – CONTINUE ON ANOTHER PAGE IF NEEDED).
(Division Sign-Off) Concurrence of CDRH, Office of Device Evaluation (ODE) Indications for Use Statement continued Division of General, Restorative,
and Neurological Devices
510(k) Number <u>400/347</u>

28

The intended use and indications of the Malibu spinal system, when used as a Spinal Interlaminal Fixation Orthosis or Hook Spinal System, are limited to T1-L5 and are as follows:

- degenerative disc disease (DDD) as defined by back pain of discogenic origin
 with degeneration of the disc confirmed by patient history and radiographic
 studies,
- spondylolisthesis
- trauma (i.e., fracture or dislocation),
- spinal stenosis,
- deformities or curvatures (i.e., scoliosis, kyphosis, and/or lordosis),
- tumor,
- pseudarthosis, and/or
- failed previous fusion.

Prescription Use X	AND/OR	Over-The-Counter-Use	_
(Part 21 CFR 801 Subpart D)		(21 CFR 807 Subpart C)	

(PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON ANOTHER PAGE IF NEEDED).

(Division Sign-Off)

Division Sign-On)
Division of General, Restorative, and Neurological Devices

510(k) Number <u>KOFB48</u>